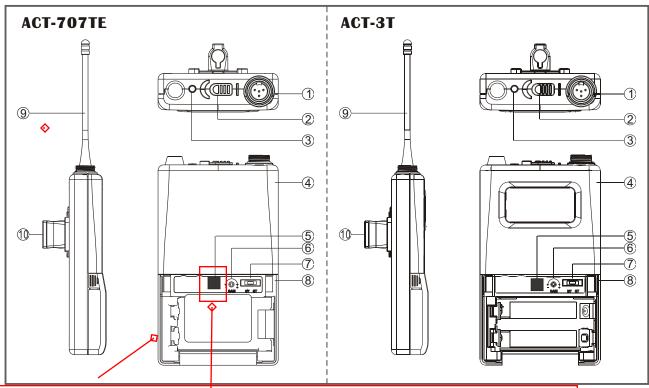
Follow the "pairing up" instructions in the MRM70 Receiver manual included below.

BODYPACK TRANSMITTER

Operating Manual

1. Parts Names And Functions



This bodypack transmitter is shown with the battery door open. (Actually it is shown with the battery door removed.)

(Fig. 1)

- 1. AF Input Jack: Connects to a lavaliere or headset microphone. (See 5 ways of connection on AF Input Connections)
- 2. Power Switch: Switch to ON position for operation. Switch to OFF position when not in use.
- 3. Battery Status Indicator: Indicates the power on / off and battery status.

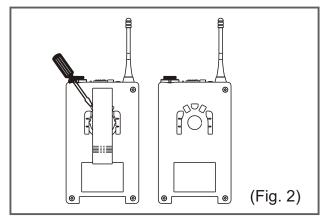
 (a) When power switch is turned on: The LED indicator flashes briefly, indicating normal battery status.
 - (b) When RED light illuminates at either power on or during usage: The battery level is low, therefore, a new battery replacement is thus necessary.
- 4. Transmitter Housing: Packages the PCB and battery.
- 5. ACT Signal Receptor: Receiving ACT signal and adjusting frequency automatically.
- 6. Gain Control: Adjusts the desirous input gain.
- 7. GT/MT Level Selector: Switch GT position for electric guitar usage ONLY. Gain Control is irrelevant for "GT". Switch to "MT" for condenser microphone, wired microphone. Gain Control works in "MT" for input sensitivity adjusting.
- 8. Battery Compartment and Cover: Accommodates one 9 Volt battery(ACT-707TE). Battery Compartment and Cover: Accommodates two 1.5V(AA) batteries(ACT-3T).
- 9. Transmitting antenna: a 1/4-wave, soft antenna.

Please note; if you have more than 1 wireless receciver in your system, and they are on the samechannel band, (Both receivers are 6A, or 6B, or 6C) they must be on different channels. e.g. If you have 2 MRM706A receivers in your MA705PA, or MA707PA, etc, and if they are both set to channel 2, you will have many symptoms of malfunctioning wireless operation. It would be recomended to set them for different channels, at least 2 channels apart. e.g. your first MRM706A receiver set to channel 2, and your second MRM70 receiver set to channel 4 or higher.

BODYPACK TRANSMITTER

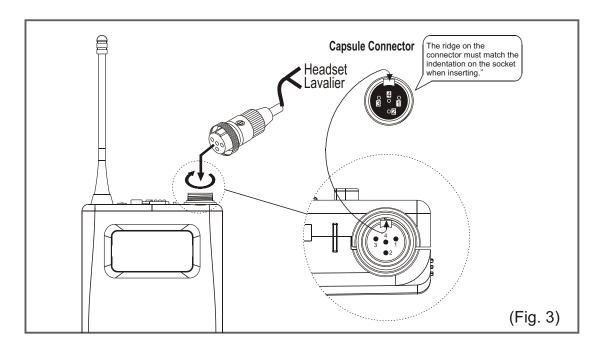
Operating Manual

10.Belt clip: allow user to hold transmitter on the belt. Allow various angel adjustment for the comfort of operation. When not in use, use a Philip (-) screw drive to uninstall.



2. Operating Instructions

- 1. To adjust volume (6), GT/MT Switch (7), simply push down both snap locks on the sides of battery cover and flip it backwards to expose the adjustment panel.
- 2. The LED indicator flashes briefly when power on indicating normal battery status. If no flash occurs it has either no battery, the battery is drained or installed incorrectly. Change accordingly.
- 3. Adjust Gain Control to desired volume. (Gain Control is irrelevant when switch to GT position).
- 4. Insert capsule module following direction of connector and rotate clockwise until capsule unit is securely tightened.

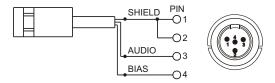


3. AF 4-pin Input Connection Method

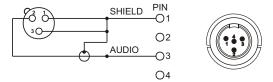




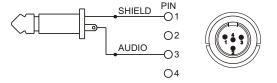
(2) 3-Wire Electret Condenser Microphone Capsule



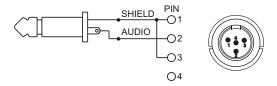
(3) Dynamic Microphone



(4) Electric Guitar



(5) Line-in (Impedance $8K\Omega$ ATT. 10dB)



BODYPACK TRANSMITTER

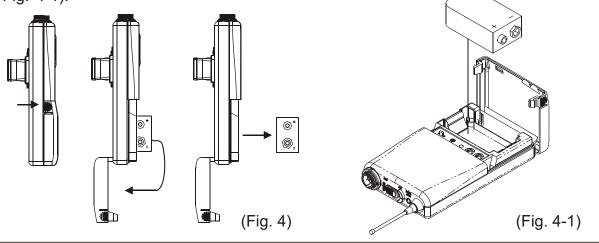
Operating Manual

4. Battery Installation

ACT-707TE

1. Pushing down both snap-locks on the sides of battery cover to open battery cover. (Fig. 4).

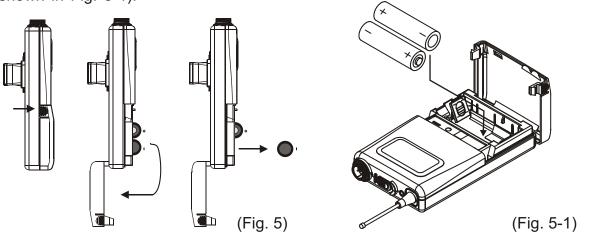
2. Insert a 9V battery into the battery compartment observing the correct polarity as shown in Fig. 4). Then push up to close the battery compartment as shown in Fig. 4-1).



ACT-3T

1. Pushing down both snap locks on the sides of battery cover to open battery cover. Take out the batteries. Fig. 5).

2. Insert two 1.5(AA) batteries into the battery compartment according to the correct polarity as shown in Fig. 5). Then push up to close the battery compartment as shown in Fig. 5-1).



PS: When the microphone is not in use:

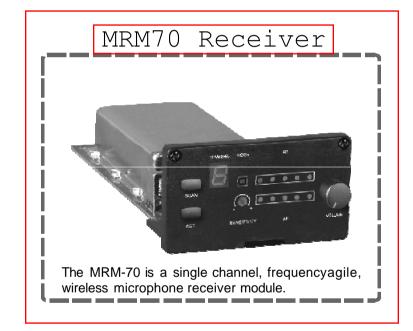
Make sure the power of the microphone is off. If the microphone will not be used for some time, please remove the batteries from the battery compartment to avoid battery leakage and result in damaged battery springs and circuit. If a rechargeable battery was used, take it out and recharge it.

Please note; if you have more than 1 wireless receciver in your system, and they are on the samechannel band, (Both receivers are 6A, or 6B, or 6C) they must be on different channels. e.g. If you have 2 MRM706A receivers in your MA705PA, or MA707PA, etc, and if they are both set to channel 2, you will have many symptoms of malfunctioning wireless operation. It would be recomended to set them for different channels, at least 2 channels apart. e.g. your first MRM706A receiver set to channel 2, and your second MRM70 receiver set to channel 4 or higher.

MĬPRO

MRM-70 FREQUENCY AGILE, DIVERSITY RECEIVER MODULE

Instruction Manual



MĪPRO

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Electronics Co., Ltd.

To "pair up" your mic/transmitter to your receiver, they need to "shake hands" with an IR signal.
The MRM70 receiver has an IR transmitter and the Mic/transmitters have an IR receiver in them.
The IR receiver in the ACT707TE beltpack is behind the battery door. The IR receiver on the handheld
mic is at the heel or bottom of the mic. The mic/transmitter IR receiver must face the MRM70 to "pair"

DIVERSITY RECEIVER MODULE

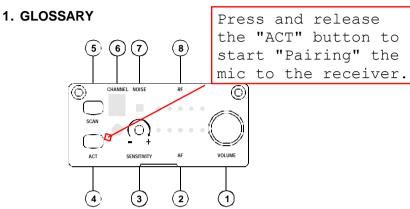
INTRODUCTION

The MRM-70 is a wirelessmicrophone receiver module suitable for installation in MIPRO's MA-705, 707& 909portable PAamplifiers. It can also be fitted to other PA amplifiers, mixers, signal processors and karaokeplayers to provide these devices with frequency agile, wireless reception.

The UHF band and PLL technology are utilized to avoid the often congested VHF band. True diversity and advanced circuitry combine to eliminate signal dropouts andrandom noise interference. The main features and benefits of the MRM70 are:

- Press the SCAN button and the receiver will auto-scan and lock on toone of the 16 preprogrammed frequencies.
- 2. Press the ACT button to automatically upload the receiver frequency to your transmitter.
- Once the frequency pairing hasbeen set, the data is stored in memory, meaning that the frequency is locked until it is changed by performing the 'ACT' function again, even after powering off.
- Brightandeasy-to-read LED displaysindicate the numeric channel number and RF&AF signal strengths.
- The receivers sensitivity level canbeadjusted to avoid interference.
- Reliable, truediversityreceptionwithdual "Pilotone& NoiseLock" circuitry prevents interferences.
- The receivers output level and dynamic rangehave been accurately factorycalibrated tomatchthemicrophone capsule's sensitivity, ensuring optimal performance from the system. (1.5dBtolerance).
- 8. The modular designallowsforeasyinstallation, maintenance and DIY.

DIVERSITY RECEIVER MODULE



- (1) Receiver Power Switch/Volume Control: Turns the receiver module on and off. After powering on, the AF LED will flash. Turn the knob clockwise to increase volume.
- (2) Audio Signal Level Indicator: Indicates the audio signal level.
- (3) Sensitivity Adjustment: Enables you to adjust the receivers sensitivity to ensures that no spurious noise is heard when there is no transmitter signal present.
- (4) **ACT Button:** Press to setup the transmitter frequency to match the receiver frequency.
- (5) Scan Button: Press to select the receivers frequency and to auto scan to ensure an interference free channel.
- (6) Channel Indicator: Display the channel selected for the receiver.
- (7) Noise Indicator: Indicates if there is interference present.
- (8) RF Signal Level Indicator: Indicates the RF signal strength at the receiver.

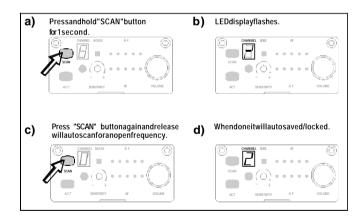
Only "pair" one mic and one MRM70 receiver at a time. Turn on one receiver and the mic/transmitter that you would like to "pair up". To pair up the bodypack ATC707TE, open the battery door. The open battery compartment must face the MRM70 receiver. Keeping the mic/transmitter about 6-8" away from the front of the MRM70 receiver, push and release the ACT button on the MRM70 receiver. You will see the red LED on the bodypack flash and will see activity on the MRM70. It takes about2-4 seconds to pair up. Once you've successfully paired them, the top row of LED's on the MRM70 receiver will light up. Turn off the power on the ACT707TE and the MRM70.

To pair up the handheld mic, ACT707HE with the receiver, follow the steps above but instead of haveing the open battery door facing the MRM70 receiver, point the heel or bottom of the mic towards the front of the MRM70 receiver. You will see the same activity as you did when pairing the ACT707TE bodypack mic/transmitter.

DIVERSITY RECEIVER MODULE

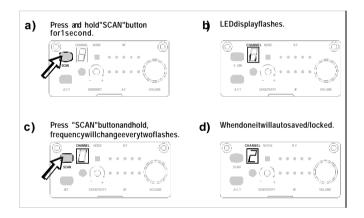
2. FREQUENCYAGILE OPERATION

- (1) Overview:
 - (a) Thissystemincorporates anadvanced PLL synthesized oscillatordesignandisreprogrammed with16userselectablefrequencies.
- (2) SelectingaFrequency:
 - (a) Auto ScanningFrequencySet-up: Holddownthe SCANbutton(5)for1second.Releasethebutton when the numericLED(6)flashes.Itwillflashatotal of 6 times.To activate theAutoScan function,press the SCANbuttononceduringthe6flashsequence. Anopenfrequencywill automaticallybe saved/locked. *Notethat theAutoScan function works only ifaccessed whiletheLEDisflashing.



DIVERSITY RECEIVER MODULE

(b) Manual Frequency Set-up: Hold down the SCAN button(5)for1second.Releasethebuttonwhen the numericLED(6)flashes.Itwillflashatotalof6 times. To manually selectanyofthe16 preprogrammed frequencies,presstheSCAN buttonand holditdownuntiltherequiredfrequency is selected. This frequency willthenautomaticallybe saved/locked.



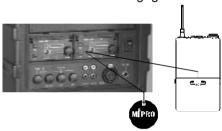
- (3) Change the channel when:
 - (a) The existing channel is encountering interference.
 - (b) You wish to selectdifferentchannelsformultiple systemapplications.

Please note; if you have more than 1 wireless receciver in your system, and they are on the samechannel band, (Both receivers are 6A, or 6B, or 6C) they must be on different channels. e.g. If you have 2 MRM706A receivers in your MA705PA, or MA707PA, etc., and if they are both set to channel 2, you will have many symptoms of malfunctioning wireless operation. It would be recomended to set them for different channels, at least 2 channels apart. e.g. your first MRM706A receiver set to channel 2, and your second MRM70 receiver set to channel 4 or higher.

DIVERSITY RECEIVER MODULE

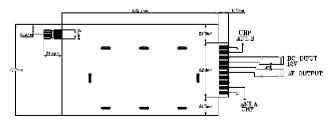
3. ACT BUTTONOPERATION

- 1. While holding the transmitterabout 30 CMaway from thereceiver, point the "ACT" markingon the transmitter at the "ACT" button (4) onthereceiver, as illustrated indiagram below.
- 2. Press "ACT" button (4) on the frontpanel of receiveronce, and the system will then complete the "ACT" function.
- 3. Once the frequencies are synchronized and locked, the "ACT" function will disengage.



4. RECEIVER MODULE WIRING DIAGRAM

To install the receiver, simply follow the wiring diagram. Carefully align the edge connector and push the receiver module in to place. Then fasten the two locking screws.



NOTE:

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